

# Certified Validation Report Template, Part A: Provided by Validator

## Audit Information

Water System Name: City of Oceanside

Public Water System Identification (PWSID)<sup>1</sup>: CA3710014

<sup>1</sup>List only 1 PWSID, which should match the PWSID on the FWAS Instructions Tab. For Special cases where multiple water systems are connected with permanent two-way interties, list those additional PWSIDs in the **Notes** below and describe the water distribution system(s) configuration.

## PWSID and Water System Configuration Notes (Provided to Validator by Water System):

Audit Period: FY2021

Validation Date: 12/20/2021

Sufficient Supporting Documents Provided: Yes

## Water System Representatives

Sarah Davis, William Reedy, Ron Lutge, Isaac Alvarez, Al Ramirez, Rosemarie Chora, Rudy Guzman, and Darrel Brown, Bill Rojas, Martin Pompa

## Validation Findings & Confirmation Statement

### Key Audit Metrics:

Data Validity Score:	63	Data Validity Band (Level):	Band III (51-70)	Real Loss:	38.55	gal / conn / day
Non-revenue water as percent of cost of operating system:			2.8%	Apparent Loss:	11.69	gal / conn / day
				ILI:	1.82	

### Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

*If not, rejected recommendations are included here:*

## Validator Information

Water Audit Validator: Kris Williams Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA



## Certified Validation Report Template, Part B: Provided by Utility

**Water System Name:** City of Oceanside

**Public Water System Identification (PWSID)<sup>2</sup>:** CA3710014

<sup>2</sup>List only 1 PWSID, which should match the PWSID on the FWAS Instructions Tab. For Special cases where multiple water systems are connected with permanent two-way interties, those additional PWSIDs should have been listed in the Notes section on Page 1 by the Validator.

### Water Audit & Water Loss Improvement Steps:

**1. Steps Taken:** Water System to identify steps taken in the preceding 3 years to increase data validity, reduce real loss, and reduce apparent loss as informed by the annual validated water audit:

Pitot tubes were added to several source meters in order to conduct calibrations - occurred two times on in FY 20-21 for available meters.

Planned and approved automatic metering for all customer meters with pilot and implementation phases starting in FY 21-22.

Approved purchase and build for an in house meter testing bench to improve customer meter source testing and availability.

Approved work with Asterra to conduct underground infrastructure analysis in order to proactively identify infrastructure leaks.

Began adding flow meters throughout the distribution system to act as additional boundary meters to improve water loss audit reporting and overall system flow understanding.

Began implementation of acoustic leak detection and staff training with acoustic devices to identify leaks in distribution system.

**2. Planned Steps (OPTIONAL):** If your audit reflects negative real losses or the cost of non-revenue water is greater than 100% of the operating costs (issues for which your audit will not meet code requirements), you will be asked what steps you are planning in the coming year to address these issues. If you already know what steps you plan to take, you may list them here. If not, please prepare a response within 90 days (23 CCR Section 638.6[a]).

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### 3. Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audit and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Executive Name (Print)

Executive Position

Signature

Date

Rosemarie Chora

Water Utilities Division Manager

*Rosemarie Chora*

12/28/2021